# NOTES BY THE EDITOR.

## RAINFALL IN JAMAICA FOR 1899.

In his Bulletin No. 254, dated March 6, 1900, Mr. Maxwell Hall publishes all the rainfall data for 1899 for the Island of Jamaica. In the following table we give the details for each of his four divisions of the island, and also for the stations, of maximum and minimum rainfall in each division:

*Rainfall data for* 1899 *for the Island of Jamaica.*

| Divisions. | January. | February. | March. | April. | May. | June. |
|---|---|---|---|---|---|---|
| NORTHEASTERN. | *Inches.* | *Inches.* | *Inches.* | *Inches.* | *Inches.* | *Inches.* |
| Mooretown, Portland | 20.65 | 13.18 | 9.42 | 13.51 | 6.90 | 13.61 |
| Manchioneal, Portland | 8.31 | 2.24 | 3.81 | 7.35 | 1.58 | 2.25 |
| Average of 27 stations | 8.39 | 4.79 | 4.89 | 4.44 | 3.93 | 4.91 |
| NORTHERN. | | | | | | |
| Point Hill, St. Catherines | 0.80 | 1.73 | 2.97 | 7.72 | 4.62 | 3·10 |
| Holland Pen, Trelawny | 0.70 | 1.35 | 2.43 | 2.40 | 1.29 | 1.75 |
| Average of 58 stations | 2·22 | 2.74 | 2.32 | 4.32 | 2.15 | 3.10 |
| WEST-CENTRAL. | | | | | | |
| Darliston, West Moreland | 2.92 | 4.83 | 7.40 | 10.20 | 18.58 | 10.21 |
| Ulster Spring, Trelawny | 1.56 | 2.37 | 4.70 | 3.13 | 8.96 | 3.91 |
| Average of 31 stations | 2.86 | 2.69 | 5.27 | 6.64 | 6.75 | 8.14 |
| SOUTHERN. | | | | | | |
| Pepper, St. Elizabeths | 0.68 | 0.30 | 1.91 | 10.45 | 8.43 | 5.63 |
| Lunatic Asylum, Kingston | 0.81 | 0.46 | 1.77 | 1.97 | 1.00 | 0.00 |
| Average of 40 stations | 2.38 | 1.16 | 2.56 | 3.78 | 3.93 | 2.51 |
| General mean for Jamaica | 3.96 | 2.84 | 3.76 | 4.80 | 4.20 | 4.66 |

| Divisions. | July. | August. | September. | October. | November. | December. | Year. |
|---|---|---|---|---|---|---|---|
| NORTHEASTERN. | *Inches.* | *Inches.* | *Inches.* | *Inches.* | *Inches.* | *Inches.* | *Inches.* |
| Mooretown, Portland | 10.50 | 8.48 | 18.28 | 30.86 | 62.27 | 36.20 | 238.86 |
| Manchioneal, Portland | 1.69 | 0.85 | 2.68 | 26.63 | 8.50 | 3.66 | 69.55 |
| Average of 27 stations | 3.81 | 3.48 | 6.98 | 26.44 | 25.33 | 14.66 | 112.10 |
| NORTHERN. | | | | | | | |
| Point Hill, St. Catherines | 5.13 | 8.61 | 5.49 | 29.08 | 13.89 | 7.15 | 9.29 |
| Holland Pen, Trelawny | 0.20 | 1.35 | 1.35 | 13.15 | 12.30 | 4.82 | 43.09 |
| Average of 58 stations | 2.12 | 2.58 | 5.34 | 16.50 | 12.36 | 5.56 | 61.31 |
| WEST-CENTRAL. | | | | | | | |
| Darliston, West Moreland | 12.26 | 9.83 | 14.35 | 32.75 | 12.63 | 3.83 | 139.79 |
| Ulster Spring, Trelawny | 2.78 | 3.78 | 9.65 | 20.10 | 11.97 | 4.78 | 77.69 |
| Average of 31 stations | 6.21 | 7.68 | 10.96 | 28.20 | 11.17 | 4.71 | 101.28 |
| SOUTHERN. | | | | | | | |
| Pepper, St. Elizabeths | 7.35 | 4.02 | 18.10 | 38.58 | 15.42 | 6.70 | 117.57 |
| Lunatic Asylum, Kingston | 1.44 | 0.18 | 3.19 | 9.32 | 8.43 | 4.81 | 33.38 |
| Average of 40 stations | 3.29 | 3.14 | 6.47 | 23.76 | 11.10 | 4.54 | 68.62 |
| General mean for Jamaica | 3.86 | 4.22 | 7.44 | 23.72 | 14.99 | 7.37 | 85.82 |

## OREGON WEATHER AND BERING SEA ICE.

In the May report of the Oregon section, Mr. E. A. Beals, Section Director, says that "an unconfirmed report from Dutch Harbor, dated May 15, states that Bering Sea is open and clear of ice for vessels. The date of the retreat of the ice ranges between May 2 and May 30." According to Mr. Beals' theory (see MONTHLY WEATHER REVIEW, April, 1900, page 163) the pack ice should leave Bering Sea at about the average time, therefore, about May 16, but, as shown on the page referred to, the recorded data are not uniform enough to warrant any exact deductions.

## SEASONAL FORECASTS IN COLORADO.

In the MONTHLY WEATHER REVIEW for April, page 155, we have given some of the results deduced by Mr. F. H. Brandenburg from the records of temperature and rainfall at Denver, Colo. In general he shows that the compensation for abnormal seasons does not appear in the immediate following season, but at irregular intervals which are difficult to predict. The fundamental tables of departures on which Mr. Brandenburg based his investigation are worthy of wider dissemination, and in order that others may investigate the question from any point of view that may occur to them we accordingly reprint Mr. Brandenburg's tables. Table 1 gives the departures of each monthly mean temperature from the normal for that month, and Table 2 gives similar departures for the rainfall. The departures are positive when the observed values are above the normal, and are negative when they are below. The normal values are given at the bottom of each column, so that the individual monthly values can be reproduced if needed.

TABLE 1.—*Temperature departures at Denver, Colo.*

| Year. | January. | February. | March. | April. | May. | June. |
|---|---|---|---|---|---|---|
| | ° | ° | ° | ° | ° | ° |
| 1872 | ..... | ..... | ..... | ..... | 0.2 | 0.3 |
| 1873 | 1.7 | — 1.3 | 6.4 | — 6.6 | — 2.8 | 2.4 |
| 1874 | 3.9 | — 6.2 | — 1.9 | — 4.3 | 4.2 | 2.9 |
| 1875 | —10.5 | 1.3 | — 4.1 | — 2.6 | 4.3 | 2.9 |
| 1876 | — 0.6 | 6.3 | — 3.5 | 1.0 | 0.2 | — 1.1 |
| 1877 | — 4.4 | 3.6 | 4.0 | — 3.7 | — 0.3 | — 2.0 |
| 1878 | — 2.4 | 5.3 | 6.5 | 2.6 | — 1.8 | — 2.4 |
| 1879 | — 3.8 | 4.9 | 7.7 | 2.6 | 4.8 | 2.4 |
| 1880 | 7.8 | — 3.0 | — 4.2 | 0.0 | 1.7 | 1.3 |
| 1881 | — 2.6 | — 1.9 | — 0.3 | 6.1 | 4.0 | 5.2 |
| 1882 | 0.0 | 5.8 | 3.5 | — 0.8 | — 3.6 | — 1.3 |
| 1883 | — 0.8 | — 9.7 | 4.7 | — 2.3 | — 2.6 | — 2.3 |
| 1884 | 3.0 | — 1.8 | 0.4 | — 4.6 | — 2.6 | — 0.3 |
| 1885 | — 0.4 | 0.7 | 0.6 | — 0.7 | — 3.7 | — 1.9 |
| 1886 | — 6.7 | 7.2 | — 4.4 | — 2.0 | 5.1 | — 0.9 |
| 1887 | 2.1 | 0.7 | 7.2 | 0.7 | 2.4 | 2.3 |
| 1888 | 0.4 | 7.1 | — 5.0 | 5.6 | — 3.0 | 1.1 |
| 1889 | 1.4 | — 2.3 | 4.5 | 3.5 | — 1.3 | — 2.4 |
| 1890 | 0.4 | 2.1 | 2.2 | 0.4 | 0.9 | 0.9 |
| 1891 | 3.2 | — 5.1 | — 6.6 | 0.4 | — 0.6 | — 3.3 |
| 1892 | — 2.6 | 1.6 | — 2.4 | — 1.8 | — 5.3 | — 1.9 |
| 1893 | 9.7 | — 0.5 | — 0.8 | — 2.5 | — 2.5 | 1.9 |
| 1894 | 2.8 | — 7.0 | 1.4 | 2.0 | 2.2 | — 0.7 |
| 1895 | — 0.2 | — 5.3 | — 1.6 | 2.2 | — 1.2 | — 4.9 |
| 1896 | 8.8 | 5.9 | — 1.6 | 2.0 | 2.0 | 1.5 |
| 1897 | — 2.0 | — 0.7 | — 3.1 | — 0.2 | 3.8 | — 1.5 |
| 1898 | 0.6 | 5.9 | — 3.1 | 1.6 | — 3.8 | 0.3 |
| 1899 | 1.8 | —14.3 | — 5.6 | 1.2 | 0.0 | 0.1 |
| Normal | 28.6 | 31.9 | 38.8 | 47.6 | 56.8 | 66.7 |

| Year. | July. | August. | September. | October. | November. | December. | Annual. |
|---|---|---|---|---|---|---|---|
| | ° | ° | ° | ° | ° | ° | ° |
| 1872 | — 3.1 | — 1.5 | ..... | ..... | ..... | — 3.8 | ..... |
| 1873 | 0.3 | 1.1 | — 1.6 | — 4.2 | 3.7 | — 9.2 | — 0.8 |
| 1874 | 4.0 | 2.9 | — 2.0 | 2.4 | 3.7 | — 1.0 | 0.7 |
| 1875 | — 3.1 | — 0.5 | 1.3 | 5.5 | — 1.0 | 6.8 | 0.0 |
| 1876 | 2.0 | — 0.3 | — 0.3 | 1.4 | — 1.1 | — 4.3 | 0.0 |
| 1877 | 2.4 | 1.5 | 0.1 | — 4.6 | — 2.9 | 1.5 | — 0.4 |
| 1878 | 3.8 | 3.8 | — 2.4 | — 0.5 | 3.2 | —10.0 | 0.5 |
| 1879 | 2.0 | 0.1 | 0.3 | 2.9 | 0.9 | — 4.1 | 1.7 |
| 1880 | — 0.7 | — 0.5 | — 0.6 | — 2.3 | —16.8 | — 2.0 | — 1.6 |
| 1881 | 3.6 | 2.5 | — 2.3 | 0.3 | — 2.4 | 7.4 | 1.6 |
| 1882 | — 1.1 | 1.0 | 0.6 | 0.5 | — 0.6 | 3.5 | 0.6 |
| 1883 | — 1.6 | 0.3 | — 0.4 | — 3.7 | 4.8 | 0.8 | — 1.1 |
| 1884 | 1.2 | — 3.0 | 1.6 | 4.4 | 3.9 | — 7.5 | — 0.4 |
| 1885 | — 0.1 | — 2.1 | 0.0 | — 0.2 | 5.1 | 4.3 | 0.1 |
| 1886 | 2.0 | 0.9 | — 2.4 | 1.0 | — 5.8 | 3.3 | — 0.2 |
| 1887 | — 2.5 | — 2.1 | 0.5 | — 2.6 | 2.1 | — 1.7 | 0.8 |
| 1888 | 2.0 | — 2.9 | 0.0 | 0.1 | — 1.8 | 5.1 | 0.7 |
| 1889 | — 0.2 | 1.9 | — 2.8 | 0.9 | — 6.4 | 8.4 | 0.2 |
| 1890 | 2.6 | — 1.9 | — 0.3 | — 1.4 | 1.5 | 7.2 | 1.2 |
| 1891 | — 3.3 | — 1.7 | 1.4 | 1.3 | — 1.0 | — 0.8 | — 1.9 |
| 1892 | — 0.3 | 0.5 | 3.2 | — 0.7 | 4.1 | — 5.3 | — 0.9 |
| 1893 | 1.2 | — 0.9 | 0.6 | 0.5 | 0.2 | 6.1 | 1.1 |
| 1894 | — 0.6 | 0.3 | — 0.2 | 3.1 | 6.0 | — 0.4 | 0.7 |
| 1895 | — 4.8 | — 0.7 | 2.8 | — 0.2 | — 1.0 | 1.9 | — 1.1 |
| 1896 | — 0.3 | 0.9 | — 1.6 | — 0.8 | — 2.9 | 6.7 | 1.7 |
| 1897 | — 2.4 | — 1.3 | 3.5 | 0.1 | 2.0 | — 3.8 | — 0.5 |
| 1898 | 0.2 | 1.7 | — 0.9 | — 1.9 | — 3.0 | — 6.3 | — 0.8 |
| 1899 | — 1.8 | 1.0 | 2.2 | — 1.5 | 6.0 | — 1.8 | — 1.1 |
| Normal | 72.2 | 70.9 | 62.8 | 50.9 | 38.8 | 32.1 | 49.8 |